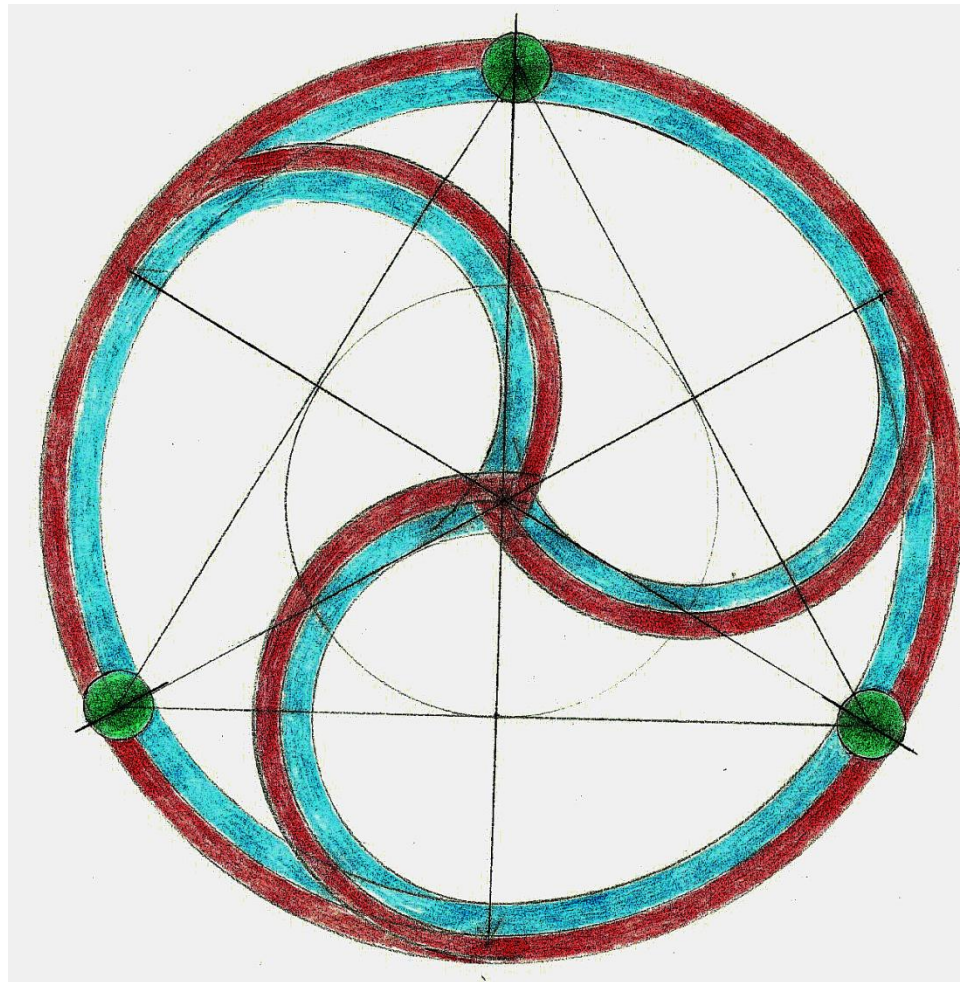


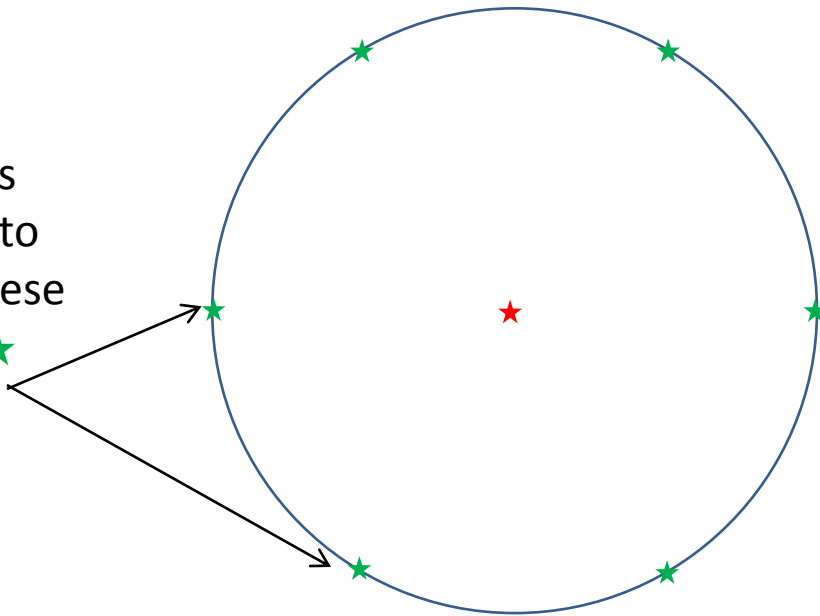
Constructing a Manx window

Dr Andrew French



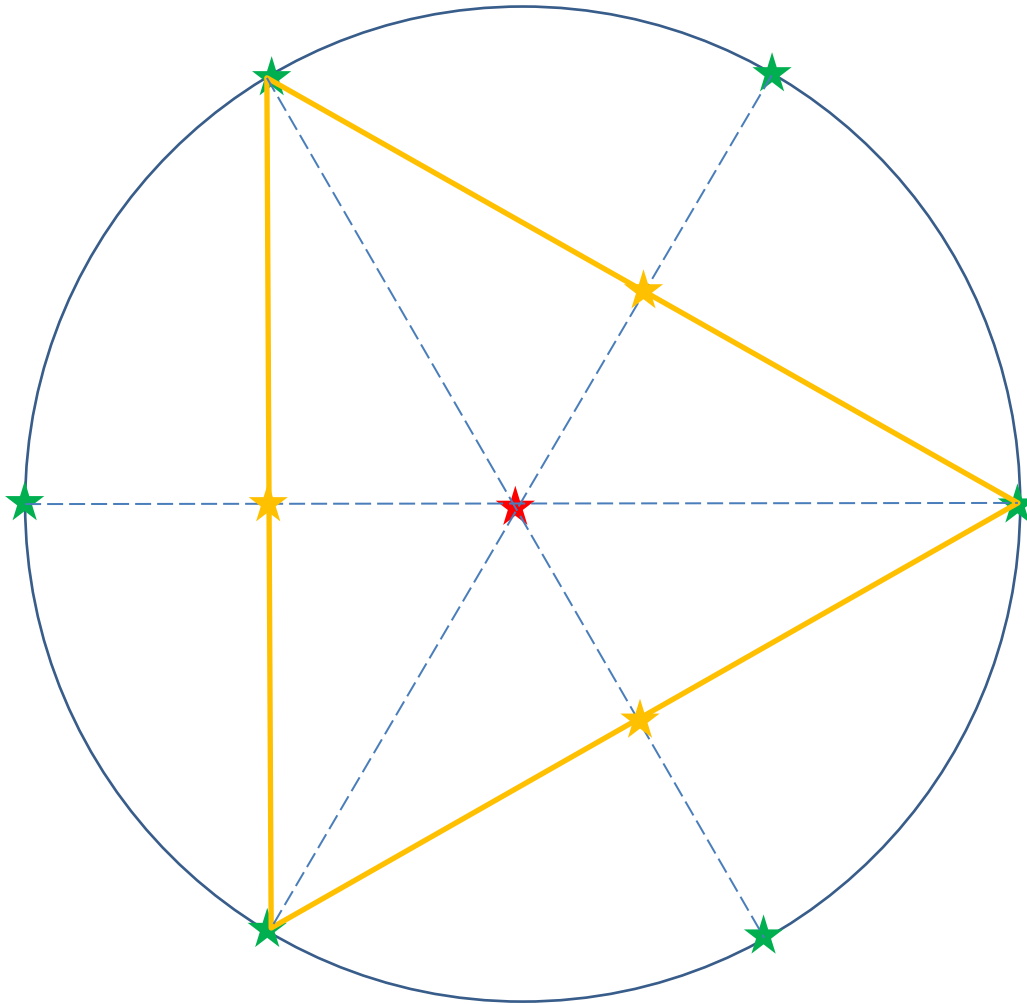
1. Draw a circle with a compass. Without changing the opening angle of the compass, 'walk' it round the circle and mark points on the perimeter, which will be the vertices of a *regular hexagon*.

'Walk'
compass
around to
mark these
points ★

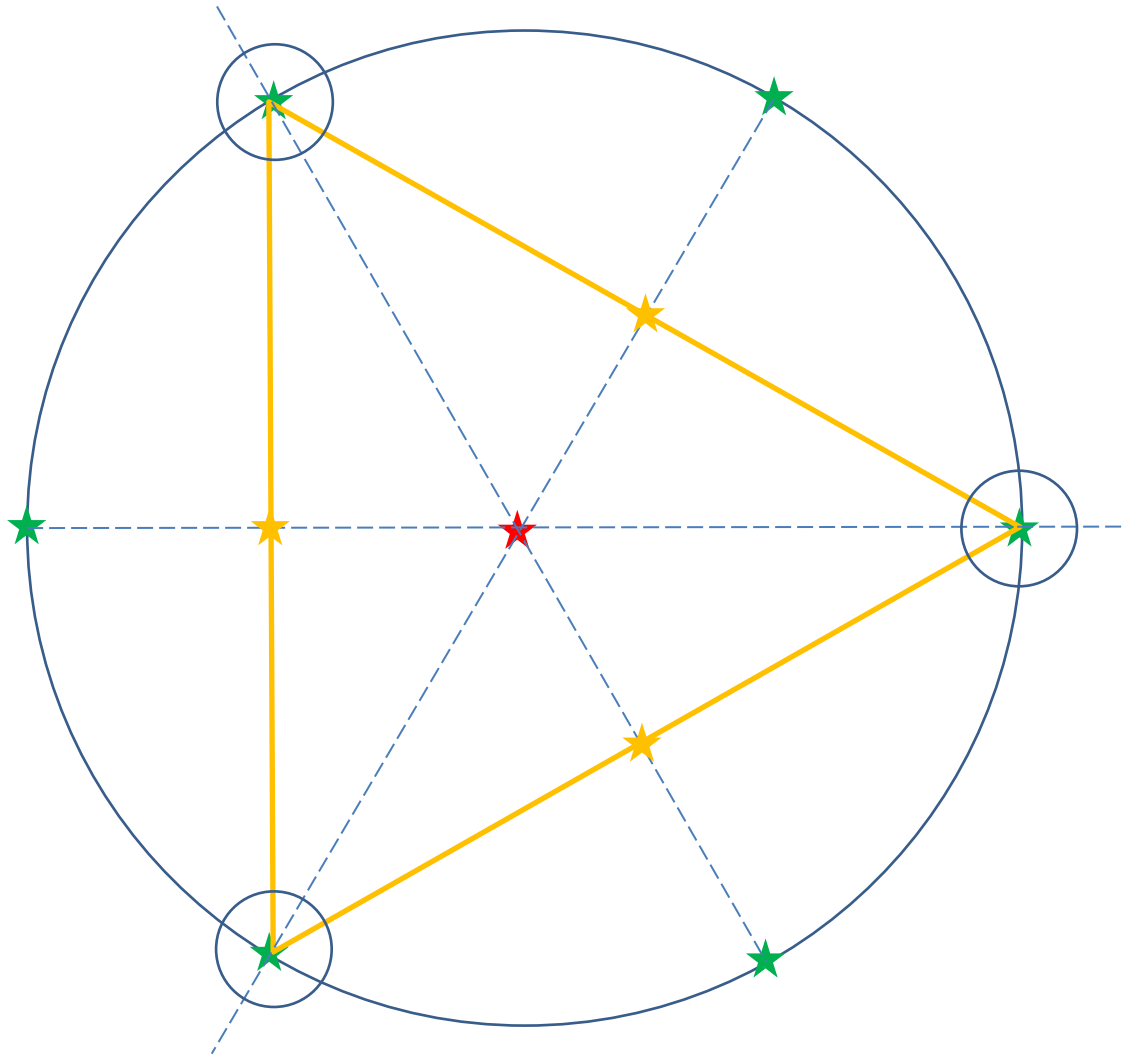


Keep the angle the
same as used to draw
the original circle

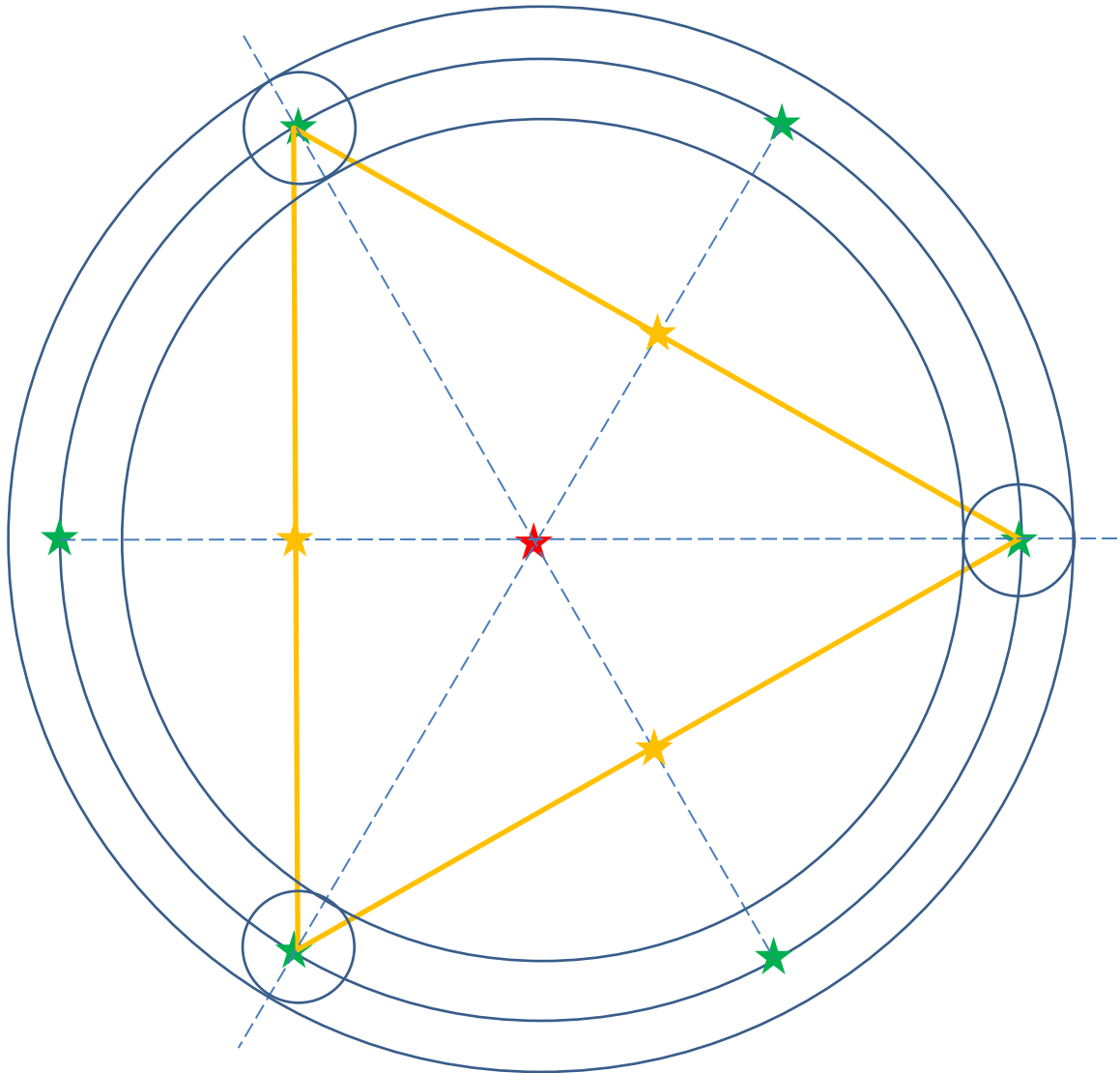
2. Connect up *alternate* marks to form an *equilateral triangle* circumscribed by the circle.
3. Connect the circle centre with the other marks to bisect the sides of the triangle.



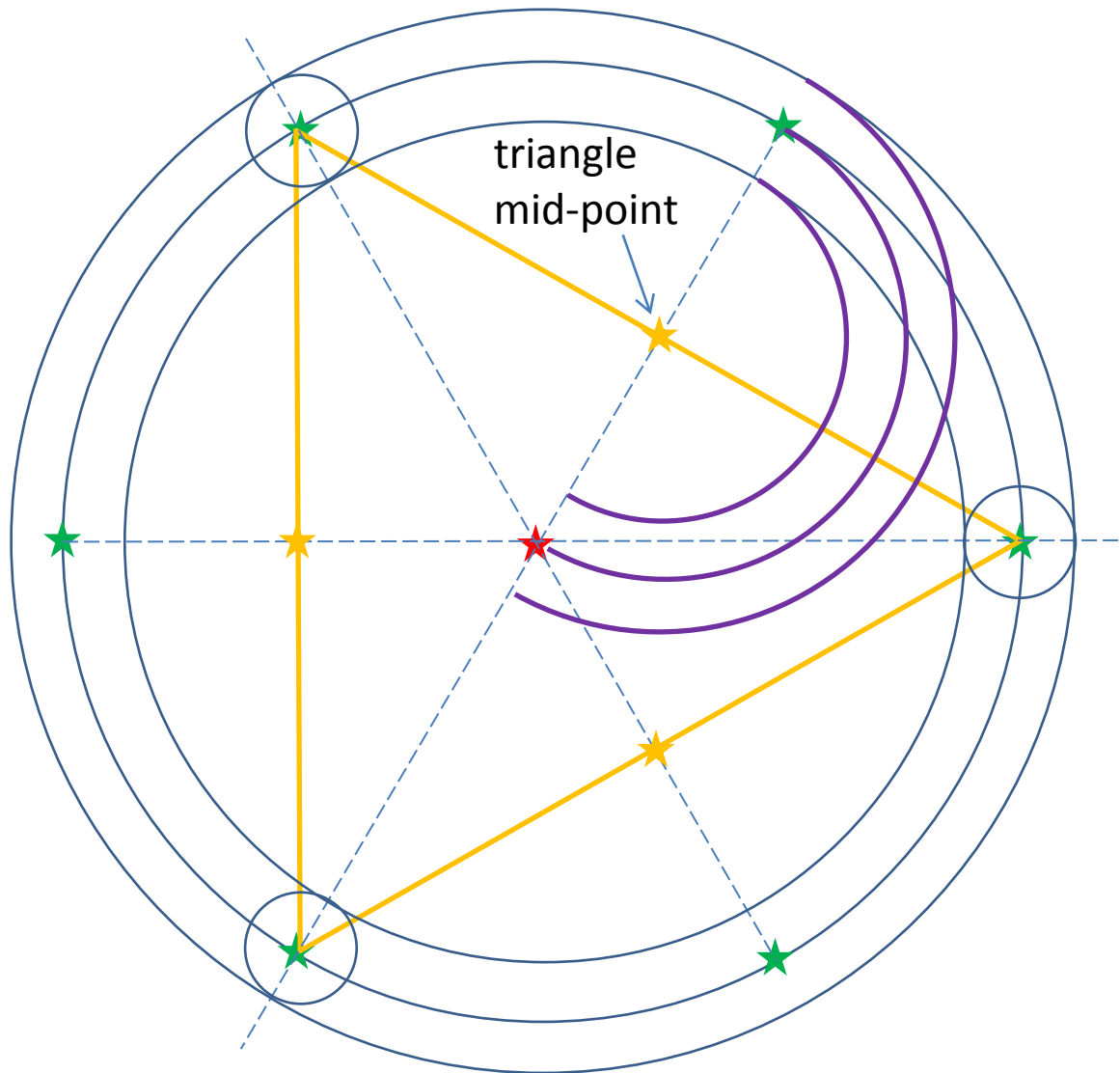
4. Draw three identical small circles centred on the vertices of the circumscribed triangle. Extend the triangle bisection lines to pass through these circles.



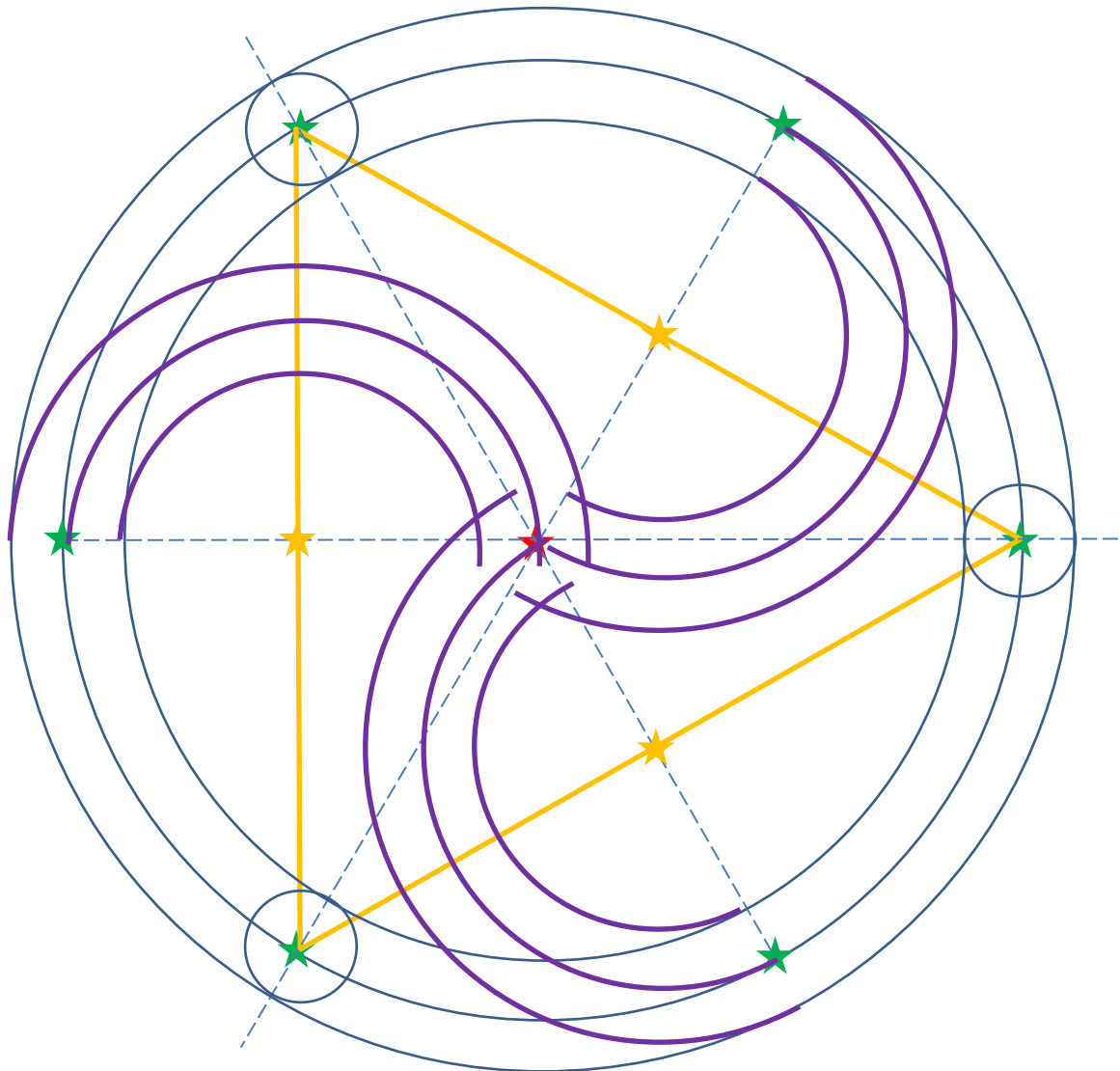
5. Draw two more large circles which touch all the small circles

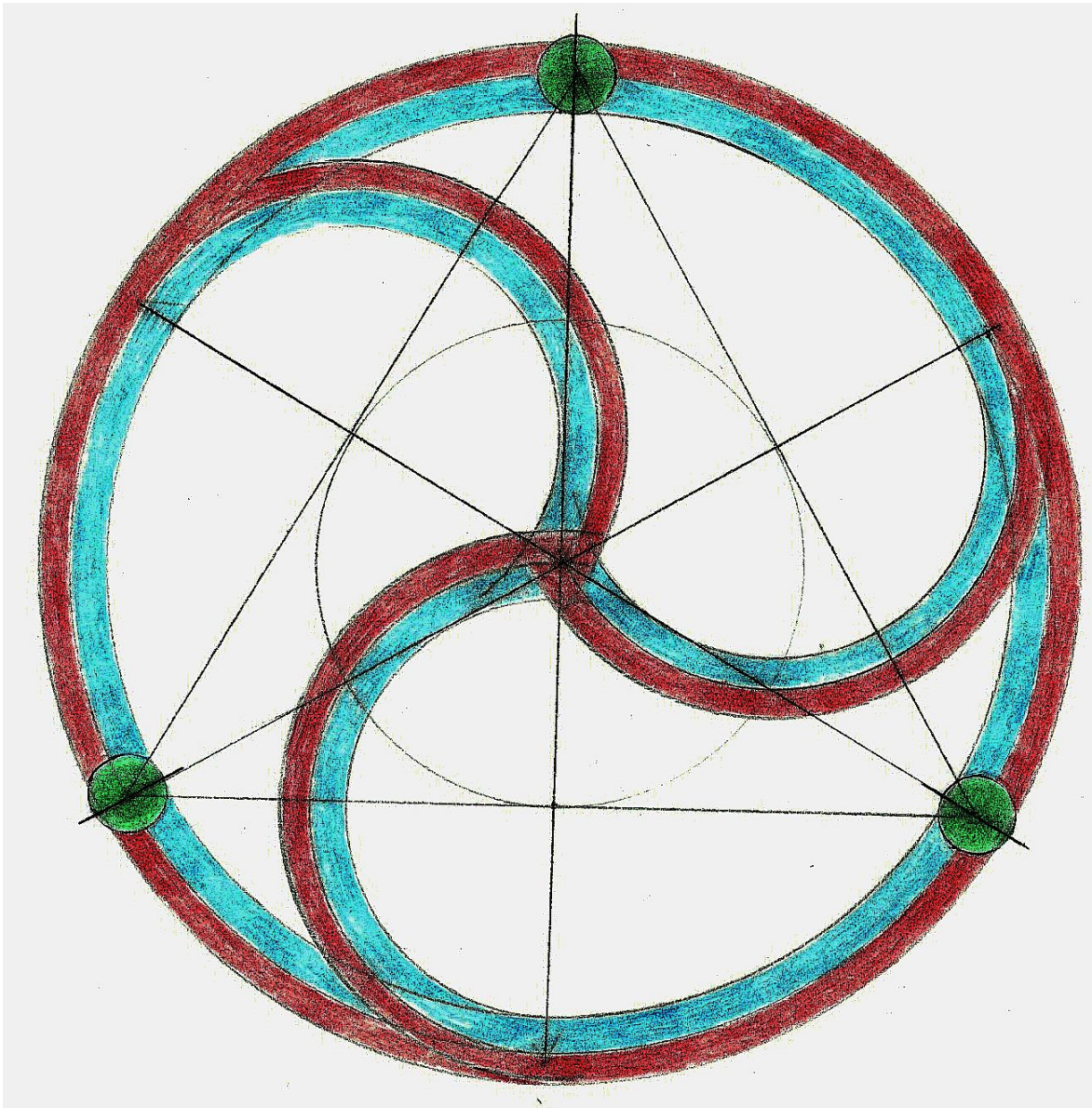


6. From the triangle mid-points, draw three semi-circles which pass through each of the three outer circles. The triangle mid point is the centre of each circle.



7. Draw another two sets of three semi-circles to complete the Manx window. Centre each set on one of the triangle mid-points.





Manx window

